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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/486,839	03/01/2000	RAJA G. ACHARI	719-75-PCT/U	4232
36814 7.	7590 02/08/2005		EXAMINER	
PAUL G. LUNN, ESQ. NASTECH PHARMACEUTICAL COMPANY			JIANG, SHAOJIA A	
INC. 3450 MONTE	VILLA PARKWAY		ART UNIT	PAPER NUMBER
BOTHELL, WA 98021-8906			1617	
BOTHELL, W				

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of upon may be available under the provisions of 30°CR1.13(6). In no event, however, may a reply be firmely filled Extensions of upon year-based under the provisions of 30°CR1.13(6). In no event, however, may a reply be firmely filled I the period for reply acceledate under the provision of 30°CR1.13(6). In no event, however, may a reply be firmely filled for reply acceledate on the period for reply acceledate the period for reply will, by adult or period year divergency for the mailing date of this communication of the period for reply will, by adults or period year and the period for reply will, by adults or period year of the period of		Application No.	Applicant(s)					
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- The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION. Elements of their may be a valishing under the previous of 37 CPR 1.13(a). In no event, however, may a reply to timely filled their period of their may be a valishing under the previous of 37 CPR 1.13(a). In no event, however, may a reply to timely filled their period of their period of their period and position years and period of their period of their period and period of their period of their period of their period and period of their period of th	Office Action Summary	Examiner	Art Unit					
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THE MAILING DATE OF THIS COMMUNICATION. Entonizors of time may be available under the provisions of 37 cPt 1.15(g). In no event, however, may a reply be timely filed after SIX (6) MCNT15 from the mailing date of this communication. Foliated from may be available under the provisions of 37 cPt 1.15(g). In no event, however, may a reply be timely filed after SIX (6) MCNT15 from the mailing date of this communication. Foliate to reply septicities of the provision of the communication, even if timely filed, may reduce any sustained patient term adjustment. See 37 cPt 1.70(b). Status 1) Responsive to communication(s) filed on 15 September 2004. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 23-28 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) 23-28 is/are rejected. 7) Claim(s) is/are allowed. 8) Claim(s) 23-28 is/are rejected. 7) Claim(s) is/are abjected to by the Examiner. 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been r	The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address					
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* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) * See the attached detailed Office action for a list of the certified copies not received. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	•		ceived in this National Stage					
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DETAILED ACTION

This Office Action is a response to Applicant's amendment and response filed on September 15, 2004 wherein claims 23-26 have been amended; claims 27-28 are newly submitted. Claims 1-22 are cancelled previously.

Currently, claims 23-28 are pending in this application.

Claims 23-28 are examined on the merits herein.

Applicant's remarks and Exhibit A - Physician's Desk Reference of 1997 at page 890, and Exhibit B –The Pharmacological Basis of Therapeutics at page 158, filed September 15, 2004 with respect to the rejection made under 35 U.S.C. 112 first paragraph for lack of scope of enablement for the preventing nausea and/or vomiting and/or motion sickness by administering the scolpolamine composition to a mammal in need thereof of record stated in the Office Action dated February 24, 2004 have been fully considered and found persuasive to remove the rejection since scolpolamine is well known to be used in preventing nausea and/or vomiting and/or motion sickness by administering to a mammal in need thereof. Therefore, the said rejection is withdrawn.

Applicant's amendment filed on September 15, 2004 with respect to the rejection of claims 23-26 made under 35 U.S.C. 112 second paragraph for the use of the indefinite recitations, of record stated in the Office Action dated February 24, 2004 have been fully considered and found persuasive to remove the rejection since the claims have been amended to remove these indefinite recitations. Therefore, the said rejection is withdrawn.

Art Unit: 1617

The following is new rejection(s) necessitated by Applicant's amendment filed on September 15, 2004.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 23-28 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Applicant's amendment submitted September 15, 2004 with respect to amended claims and new claims have been fully considered but is deemed to insert new matter into the claims since the specification as originally filed does not provide support for "an intranasal formulation consisting of scolpolamine...". Note the transitional phrase "consisting of" excludes any element, step, or ingredient not specified in the claim. In re Gray, 53 F.2d 520, 11 USPQ 255 (CCPA 1931); Ex parte Davis, 80 USPQ 448, 450 (Bd. App. 1948) ("consisting of" defined as "closing the claim to the inclusion of materials other than those recited except for impurities ordinarily associated therewith."). >But see Norian Corp. v. Stryker Corp., 363 F.3d 1321, 1331-32, 70 USPQ2d 1508, 1516 (Fed. Cir. 2004). See also MPEP 2111.03.

Art Unit: 1617

However, the original specification fails to disclose any particular and specific compositions consisting of the ingredients recited in claim 23 that exclude any element, or ingredient not specified in the claim, i.e., the specific formulations 1-3 in Example 1 of the specification at page 12-13, consisting of <u>more</u> ingredients than those recited in claim 23.

Consequently, there is nothing within the instant specification which would lead the artisan in the field to believe that Applicant was in possession of the invention as it is now claimed. See *Vas-Cath Inc. v. Mahurkar*, 19 USPQ 2d 1111, CAFC 1991, see also *In re Winkhaus*, 188 USPQ 129, CCPA 1975.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 24 and 26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As indicated above, the transitional phrase "consisting of" **excludes** any element, step, or ingredient not specified in the claim, whereas the transitional term "comprising", which is synonymous with "including," "containing," or "characterized by," is inclusive or open-ended and does not exclude additional, unrecited elements or method steps. See, e.g., Invitrogen Corp. v. Biocrest Mfg., L.P., 327 F.3d 1364, 1368, 66 USPQ2d 1631, 1634 (Fed. Cir. 2003) ("The transition comprising" in a method claim indicates that the

Art Unit: 1617

claim is open-ended and allows for additional steps."); Genentech, Inc. v. Chiron Corp., 112 F.3d 495, 501, 42 USPQ2d 1608, 1613 (Fed. Cir. 1997). See also MPEP 2111.03.

Therefore, the transitional phrases "comprising" employed in the dependent claims 24 and 26 render the claims indefinite since the transitional phrases "consisting of" has already been recited in the base claim 23. Thus, the open transitional phrase, "comprising" in dependent claims herein is improper.

The following is the new ground(s) of rejection(s).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 23-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keith (WO 83/00286, of record) in view of Kondrat'eva et al. and JOSHI et al. (5,252,318, of record) and *Handbook of Pharmaceutical Excipients*, 2nd Ed, page 383, of record, further in view of "Remington: The Science and Practice of Pharmacy" (17th ed.), A.R. Gennaro, 1985, page 1308 and 1159 and Applicant admission regarding the prior art in the specification (see page 7-8).

Art Unit: 1617

Keith discloses that an intranasal formulation comprising scopolamine hydrochloride in a pharmaceutically acceptable carrier, an aqueous solution containing ethanol, an aerosol spray vehicle, to be administered to a patient (a human), is useful in a method of preventing and/or treating motion sickness such as nausea and/or vomiting. See abstract, Examples I-XII, and claims 1-6. Keith also discloses that the intranasal formulation therein provides quick relief from motion sickness and the onset of effect is within ten minutes. See page 2 lines 3-4, page 3 Example II, and page 4 Example IV.

The prior art does also not expressly disclose the employment of polyvinyl alcohol (PVA), glycerin, a preservative which is benzalkonium chloride, in the formulation in the intranasal formulation and method for the treatment of motion sickness. The prior art does not expressly disclose that the pH value of the instant intranasal formulation is about 3.5, and the concentration of the buffer salt in the instant intranasal formulation is about 20 mM.

Kondrat'eva et al. teaches that the addition of <u>poly(vinyl alcohol)</u> (also known as PVA) (2.5%) to 0.25% aqueous solution preparation of scopolamine-HBr (hydrobromide), significantly increased the stability of the solution of scopolamine-HBr. The eye drops did not show change after sterilization at 120.degree. for 8 min and were stable during 1-year storage. The modified preparation had no irritating effect on the eye. See the English abstract. Note that the eye drop is to be administered to a patient (a human).

Art Unit: 1617

Joshi et al. discloses that drug delivery systems such as gelling aqueous compositions therein undergo significant changes in viscosity in response to substantially changes in pH and temperature (see abstract). Joshi et al. also teaches that by adjusting or controlling the pH of these drug delivery systems in an aqueous base through the addition of buffering agents, the viscosities of the compositions or formulations may be various (see col.1 lines 6-15, and col.2 lines 1-5 and 21-28). Joshi et al. also discloses that compositions or formulations therein exhibit steady state flow characteristics at or near room temperature at a pH range of 2.5 to 6.5, i.e., a pH of between 3.0 and 5.0 (see col.3 lines 33-35, and col.7-8 especially lines 57-59). Joshi et al. discloses the employment of lubricants such as polyvinyl alcohol (see col.12 lines 21-22) in combination with one or more additional gelling agents or bioadhesives in the formulations (see col.3 lines 24-48). Joshi et al. further discloses that the most promising drugs for incorporating into the aqueous drug delivery compositions therein include scopolamine (see col.11 lines 32-33).

Handbook of Pharmaceutical Excipients teaches polyvinyl alcohol is a known viscosity increasing agent (also known as a thickening agent) and a known lubricant (page 383).

"Remington: The Science and Practice of Pharmacy" (17th ed.), A.R. Gennaro, 1985, page 1308 and 1159. teaches that glycerin (also known as glycerol) is an old and well known pharmaceutically acceptable solvent, miscible with water, used in pharmaceutical compositions; benzalkonium chloride is an old and well known antibacterial agent used as a preservative.

Art Unit: 1617

More importantly, Applicant admits and acknowledges in the specification (see page 7, line 24 to page 8 line 2) stating that "In the present invention, many other excipients, known from the pharmaceutical literature, may be added to the formulations, such as preservatives, surfactants, co-solvents, adhesives, antioxidants, buffers. viscosity enhancing agents and agents to adjust the pH or the osmolarity" (emphasis added).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ polyvinyl alcohol (PVA), glycerin, a preservative which is benzalkonium chloride, in the formulation in the intranasal formulation and method for the treatment of motion sickness, and to optimize the pH of the intranasal formulation herein to about 3.5 and the concentration of the buffer salt in the instant intranasal formulation to below about 20 mM.

One having ordinary skill in the art at the time the invention was made would have been motivated to employ polyvinyl alcohol, glycerin, a preservative which is benzalkonium chloride, in the formulation in the intranasal formulation and method for the treatment of motion sickness, since an intranasal formulation comprising scopolamine hydrochloride in a pharmaceutically acceptable carrier broadly, an aqueous solution, is known to be useful in a method of preventing and/or treating motion sickness such as nausea and/or vomiting, according to Keith.

Polyvinyl alcohol is known to significantly increase the stability of scopolamine-HBr in aqueous solution, e.g., the scopolamine-HBr solutions did not show change after sterilization at 120.degree. for 8 min and were stable during 1-year storage according to

Art Unit: 1617

Kondrat'eva et al. Moreover, polyvinyl alcohol is a known viscosity increasing agent (also known as a thickening agent) and a known lubricant, used in the aqueous drug delivery compositions therein include scopolamine according to Joshi et al. and Handbook of Pharmaceutical Excipients.

Thus, the motivation and benefit to add polyvinyl alcohol into the intranasal scopolamine formulation of Keith, as claimed herein, increasing the stability of scopolamine-HBr in aqueous solution and increasing viscosity used in the aqueous drug delivery compositions for scopolamine, are seen to be provided by the cited prior art.

Further, glycerin and a preservative such as benzalkonium chloride are excipients, well known from the pharmaceutical literature, to be added to the formulations as Applicant admits and acknowledges in the specification.

Additionally, one having ordinary skill in the art at the time the invention was made would have been motivated to optimize the pH of the instant intranasal formulation to about 3.5 and the concentration of the buffer salt in the instant intranasal formulation to about 20 mM, since gelling aqueous compositions in drug delivery systems are known to significantly change in viscosity in response to changes in pH and temperature according to Joshi et al. Joshi et al. also teaches that by adjusting or controlling the pH of these drug delivery systems in an aqueous base through the addition of buffering agents, the viscosities of the compositions or formulations may be various. Gelling aqueous compositions or formulations therein are known to exhibit steady state flow characteristics at or near room temperature at a pH range of 2.5 to 6.5, i.e., a pH of between 3.0 and 5.0 according to Joshi et al. Scopolamine is known to

Art Unit: 1617

be one of the most promising drugs for incorporating into the aqueous drug delivery compositions of Joshi et al.

Therefore, one of ordinary skill in the art would found it obvious to optimize the pH by adjusting the concentration of buffering agents in order to make the formulations herein having optimized viscosities exhibiting steady state flow characteristics at or near room temperature since the optimization of parameters based on the known information, i.e., known pH range of 2.5 to 6.5, is considered well in the competence level of an ordinary skilled artisan in pharmaceutical science, involving merely routine skill in the art. It has been held that it is within the skill in the art to select optimal parameters, such as amounts of ingredients, in a composition in order to achieve a beneficial effect. See *In re Boesch*, 205 USPQ 215 (CCPA 1980). Thus, Joshi et al. clearly provided the motivation and knowledge to optimize the pH and concentration of the buffering agents in the drug delivery system for scopolamine.

Thus the claimed invention as a whole is clearly prima facie obvious over the combined teachings of the prior art.

Applicant's remarks filed on September 15, 2004 with respect to the rejection made under 35 U.S.C. 103(a) of record stated in the Office Action dated February 24, 2004 have been fully considered but are moot in view of the new ground(s) of rejection set forth above.

Again, Applicant's assertion that Formulation 2 of the specification demonstrates unexpected superior property has been considered. However, the clear explanation of

pointing out exactly what facts are established therein and relied upon by applicant is not seen in the specification (see page 20). Applicant has the burden to explain the experimental evidence. See *In re Borkowski and Van Venrooy* 184 USPQ 29 (CCPA 1974).

In view of the rejections to the pending claims set forth above, no claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Jiang, whose telephone number is (571)272-0627. The examiner can normally be reached on Monday-Friday from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan, Ph.D., can be reached on (571)272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S. Anna Jiang, Ph.D. Primary Examiner Art Unit 1617 February 1, 2005